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PPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,076 07/03/2003		07/03/2003	Leigh H. English	MECO:218-1 8919 11792.0218.DVU	
45607	7590	09/23/2005		EXAM	INER
HOWREY	LLP		KUBELIK, ANNE R		
0.0		DEPARTMENT RK DRIVE SUITE 20	ART UNIT	PAPER NUMBER	
FALLS CH		· ·	1638		

DATE MAILED: 09/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No	Applicant(s)			
	Office Action Summary	10/614,0)76	ENGLISH ET AL.			
	Office Action Summary	Examine	r	Art Unit			
	·	Anne R.		1638			
Period fo	The MAILING DATE of this commu or Reply	unication appears on th	e cover sheet with th	ne correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD CHEVER IS LONGER, FROM THE nsions of time may be available under the provisio SIX (6) MONTHS from the mailing date of this core of period for reply is specified above, the maximum are to reply within the set or extended period for repreply received by the Office later than three monthed patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF T ins of 37 CFR 1.136(a). In no e mmunication. statutory period will apply and v oly will, by statute, cause the ap s after the mailing date of this c	HIS COMMUNICAT vent, however, may a reply b will expire SIX (6) MONTHS plication to become ABANDO	TION. De timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) f	iled on <i>5/11/05 6/30/0</i>)5 and 7/27/05				
-	This action is FINAL .						
, —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits						
-/	closed in accordance with the practice	·		•			
	·		, , .	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Disposit	ion of Claims						
4)🛛	Claim(s) 38-46 is/are pending in the	ne application.					
	4a) Of the above claim(s) is	/are withdrawn from co	onsideration.				
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) 38-46 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to rest	riction and/or election	requirement.				
0 mm l: = = 4	iau Bauaua						
Аррисат	ion Papers						
·	The specification is objected to by t						
10)⊠	The drawing(s) filed on 27 July 200	<u>05</u> is/are: a)⊠ accepte	ed or b) Dobjected	to by the Examiner.			
	Applicant may not request that any ob	jection to the drawing(s)	be held in abeyance.	See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	ng the correction is requi	red if the drawing(s) is	objected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected	to by the Examiner. N	lote the attached Off	fice Action or form PTO-152.			
Priority (ınder 35 U.S.C. § 119						
12)	Acknowledgment is made of a clair	n for foreign priority ur	nder 35 U.S.C. § 119	9(a)-(d) or (f).			
	☐ All b)☐ Some * c)☐ None of:		2121213				
,	1. Certified copies of the priorit		en received.				
		•		cation No			
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
	application from the Internat	• •		a and readonal diago			
* 5	See the attached detailed Office act	•	` ''	eived			
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	e of References Cited (PTO-892)		4) Interview Summ				
	e of Draftsperson's Patent Drawing Review mation Disclosure Statement(s) (PTO-1449 o	•	Paper No(s)/Ma 5) Notice of Inform	nil Date nal Patent Application (PTO-152)			
	r No(s)/Mail Date	UL F1 U/3B/U0)	6) Other:	Storm reproducting 1 0-102/			
6. Patent and T	rademark Office	Office Action Summa	anv	Part of Donor No (Maril Date COT			
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Application/Control Number: 10/614,076

Art Unit: 1638

DETAILED ACTION

1. Claims 38-46 are pending.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office action.

3. The terminal disclaimer filed on 11 May 2005 disclaiming the terminal portion of any

patent granted on this application that would extend beyond the expiration date of U.S. Patent

Nos. 6,501,009 and 6,620,988 has been reviewed and is accepted. The terminal disclaimer has

been recorded.

4. The objection to claims 34 and 38-39 because of informalities is withdrawn in light of

Applicant's amendment or cancellation of the claims.

5. The rejection of claims 41-43 under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter that Applicant regards

as the invention is withdrawn in light of Applicant's amendment of the claims.

6. The rejection of claims 34 and 36 under the judicially created doctrine of obviousness-

type double patenting as being unpatentable over claims 8 and 14 of U.S. Patent No. 6,501,009 is

withdrawn in light of Applicant's filing of a terminal disclaimer.

7. The rejection of claims 34 and 36-43 under the judicially created doctrine of

obviousness-type double patenting as being unpatentable over claims 1-25 of U.S. Patent No.

6,620,988 is withdrawn in light of Applicant's filing of a terminal disclaimer.

Page 2

Application/Control Number: 10/614,076 Page 3

Art Unit: 1638

Claim Rejections - 35 USC § 112

8. Claims 38-46 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter that was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The rejection is modified from the rejection set forth in the Office action mailed 1 March 2005, as applied to claims 34 and 36-43, due to Applicant's amendment of the claims. Applicant's arguments filed 11 May 2005 and 30 June 2005 have been fully considered but they are not persuasive.

Neither the instant specification nor the originally filed claims appear to provide support for the phrase "one or more point mutations ... Lys189 to Gly" in claim 38, lines 5-7, claim 39, lines 6-8, claim 44 lines 6-8, or for the phrase "further comprises the amino acid substitutions ... Gln348 to Arg" in claim 38, lines 8-9, claim 39, lines 14-16, and claim 40, lines 2-4. Thus, such a phrase constitutes NEW MATTER. In response to this rejection, Applicant is required to point to support for the phrase or to cancel the new matter.

Applicant urges that the same phrases were allowed in parent application 09/427,770, now US Patent 6,620,988 (11 May 2005 and 30 June 2005 responses pg 8).

This is not found persuasive, as each case is examined independently. Additionally, in '988 "Pro162 to His" is in the first phrase, not "Arg162 to His".

Applicant urges that all the amino acid substitutions are in Table 2, and one of skill in the art would understand that combining the substitutions from different variants would yield a

Art Unit: 1638

variant protein exhibiting improved activity, as is seen in variant 11231 and 11098 (11 May 2005 and 30 June 2005 responses pg 8-9).

This is not found persuasive because there is no support in the specification for mixing and matching all the substitutions in Table 2, or for mixing and matching that particular combination of substitutions. Additionally, there is no support for "Arg162 to His" in Table 2.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne R. Kubelik, whose telephone number is (571) 272-0801. The examiner can normally be reached Monday through Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones, can be reached at (571) 272-0745.

The central fax number for official correspondence is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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Application/Control Number: 10/614,076

Art Unit: 1638

Page 5

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Anne R. Kubelik, Ph.D. September 9, 2005

ANNE KUBELIK, PH.D.